

# ***Headquarters U.S. Air Force***

---

## ***Leveraging EMS and VPP***



**U.S. AIR FORCE**

**Lt Col Wade Weisman**

***SAF/IEE***

**703-693-9544**

**[wade.weisman@pentagon.af.mil](mailto:wade.weisman@pentagon.af.mil)**

**Ms. Krista Goodale**

**Booz Allen Hamilton**

**757-466-3251**

**[Goodale\\_krista@bah.com](mailto:Goodale_krista@bah.com)**

---

***Integrity - Service - Excellence***

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>MAY 2009</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2009 to 00-00-2009</b>	
4. TITLE AND SUBTITLE <b>Leveraging EMS and VPP</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Headquarters U.S. Air Force,SAF/IEE,Washington,DC,20330-1670</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>Presented at the NDIA Environment, Energy Security &amp; Sustainability (E2S2) Symposium &amp; Exhibition held 4-7 May 2009 in Denver, CO.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Same as Report (SAR)</b>	18. NUMBER OF PAGES <b>25</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			



U.S. AIR FORCE

# Overview

- 
- The EESOH Management Framework
  - Voluntary Protection Program (VPP) Overview
  - VPP & the Air Force
  - Environmental Management Systems (EMS) Overview
  - EMS & the Air Force
  - Integration of VPP & EMS
  - Questions

Every airman looking out for his wingman-- ON and OFF duty

---

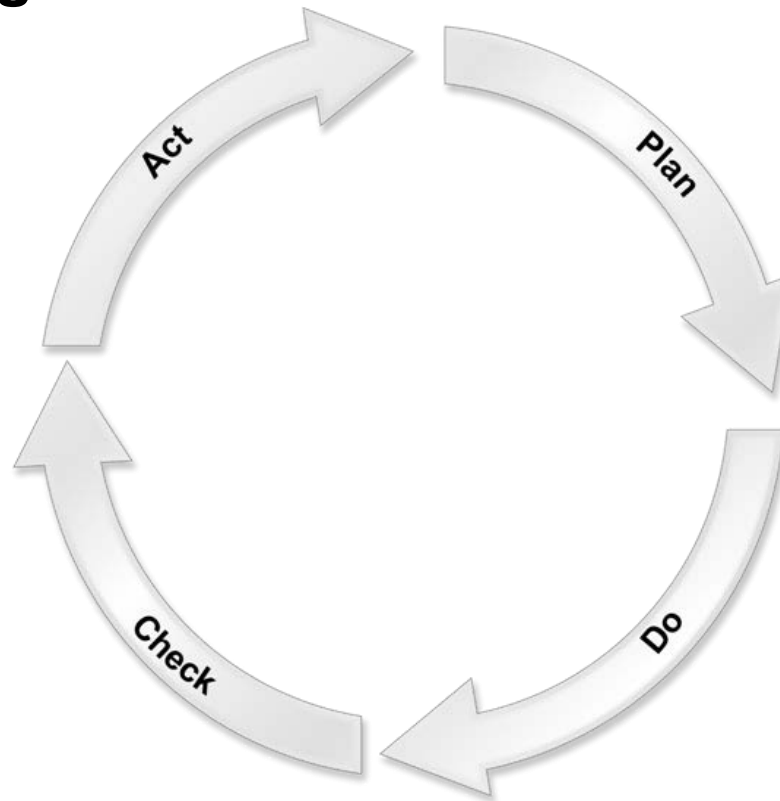
*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



U.S. AIR FORCE

# ***Air Force EESOH Management***

## ■ **Energy, Environment, Safety and Occupational Health Management in the Air Force**



Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***VPP & EMS***

- 
- **Common Elements of VPP & EMS**
    - **Worker Involvement**
    - **Feedback Improvement**
    - **Management Responsibilities**
  
  - **VPP Emphasizes the PEOPLE side of doing business**
  - **EMS Emphasizes the SYSTEMS to protect the environment**

---

Every airman looking out for his wingman-- ON and OFF duty

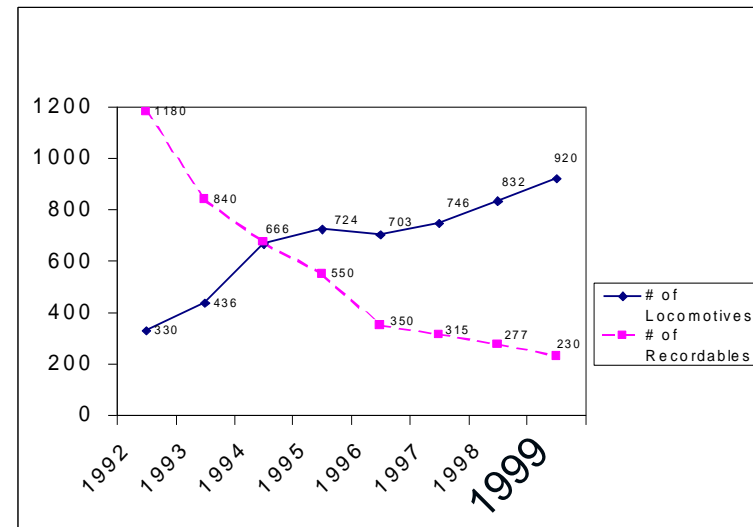
*Integrity - Service - Excellence*



U.S. AIR FORCE

# Voluntary Protection Program Overview

- VPP is recognition by the Occupational Safety and Health Administration (OSHA) for Safety and Occupational Health Program Excellence
- Participating agencies have experienced dramatic reductions in mishaps
- VPP is a performance-based safety excellence process
- OSHA evaluates participating companies/federal agencies on site
- Recognizes superior performance - “Star Status”



Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***Key Elements of VPP***

---

- ***Occupational Safety and Health Act of 1970***
  
- **The Five Key Elements of VPP:**
  - **Management and Leadership Commitment**
  - **Employee Involvement**
  - **Worksite Analysis**
  - **Hazard Prevention and Control**
  - **Safety and Health Training**

---

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***VPP Recognition Programs***

- **MERIT-** good safety and health programs
- **STAR DEMONSTRATION-** Star quality safety & health programs, but requires demonstration and/or testing
- **STAR-** Sites that have distinguished themselves with the highest level of safety and health excellence



Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*





U.S. AIR FORCE

# ***Employee Benefits***



- Fewer Injuries
- Improved Employee Motivation to Work Safely
- Reduced Workers' Compensation Costs
- Community Recognition
- Employee Ownership of Safety
- Improving Programs through Internal/External Review

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



# ***Air Force VPP***

## ***“The Wingman’s Safety Program”***

---

- Good compliance-based safety and health program
- Mature wingman and flight/weapons safety culture
- Need to mature wingman concept in ground safety
  - Expand wingman and safety out of the usual lanes
  - Every airman looking out for his wingman-- ON and OFF duty
- VPP fosters expansion of wingman concept to ground safety
  - Identify and reduce hazards and inefficiencies
  - Improve workforce availability by reducing on- and off-duty mishaps

End state: ***Every Airman and his Wingman actively identifying and taking action to eliminate safety and health hazards***

Every airman looking out for his wingman-- ON and OFF duty

---

*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



# ***Air Force VPP Implementation Progress***

2006	2007	2008
Altus	Buckley	Cannon
Eielson	David Grant Medical Center (Travis)	Charleston
Hanscom	Edwards	Dover
Hill (10 sites)	Eglin	Dyess
Holloman	Elmendorf	Goodfellow
Tinker (7 sites)	Fairchild	Laughlin
Travis	Hurlburt	MacDill
Warner Robins (8 sites)	Kirtland	Malmstrom
Wright Patterson	McGuire	Scott
	Whiteman	Sheppard
		Seymour Johnson

**Every airman looking out for his wingman-- ON and OFF duty**

***I n t e g r i t y - S e r v i c e - E x c e l l e n c e***



# ***Key Air Force VPP Takeaways***

---

- **VPP = wingman ground safety and AFSO21 Initiatives**
- **Build on current USAF AFOSH program**
- **Improve AFOSH performance**

***Ask Yourself - Am I doing everything  
I can to keep my wingman safe?***

---

**Every airman looking out for his wingman-- ON and OFF duty**

***Integrity - Service - Excellence***

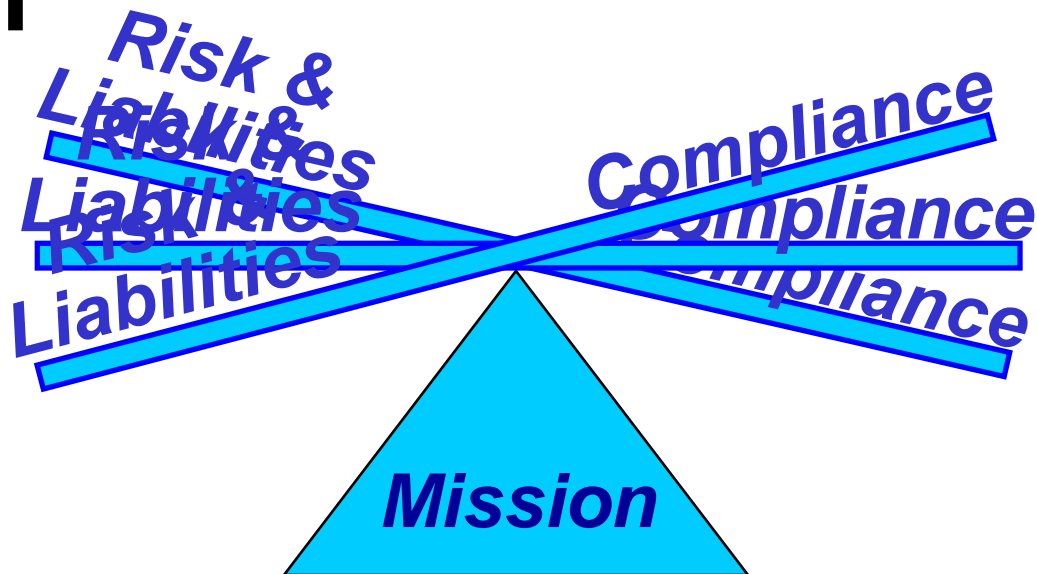


U.S. AIR FORCE

# ***Environmental Management System Overview***

---

- **Structure**
- **Awareness**
- **Participation**



---

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***Key Elements of EMS***

- 
- **International Standards Organization (ISO) 14001,  
*Environmental Management Systems***
  
  - **The Key Elements of EMS:**
    - Policy
    - Planning
    - Implementation and Operation
    - Checking and Corrective Action
    - Management Review

---

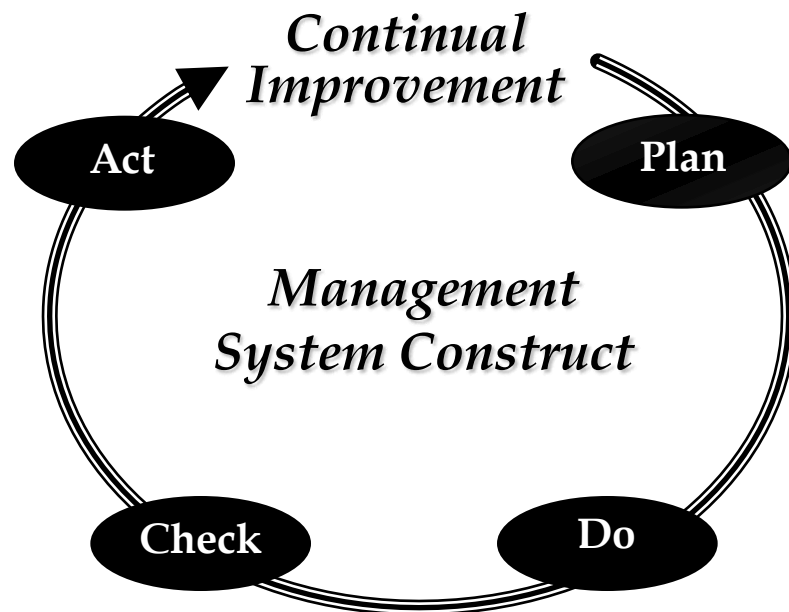
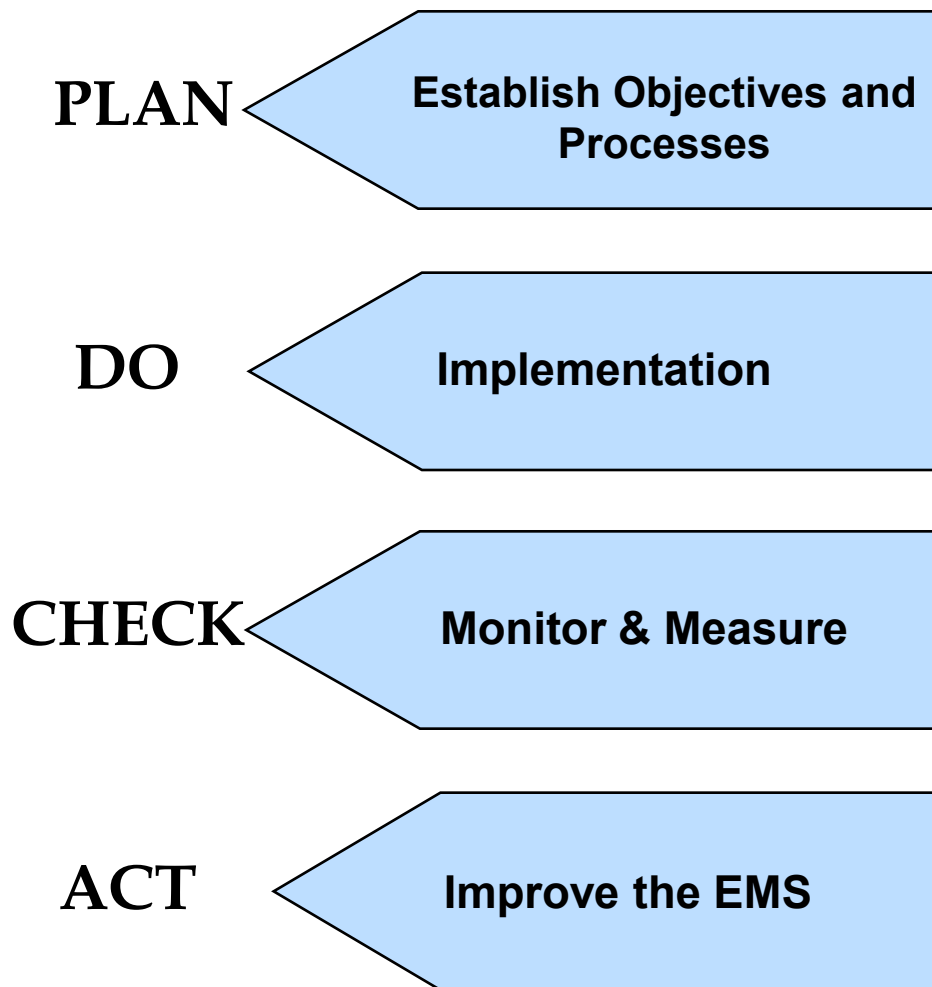
Every airman looking out for his wingman-- ON and OFF duty

*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



U.S. AIR FORCE

# ***EMS & The Plan-Do-Check-Act Model***



Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



# ***System Performance Improvements***

---

- **Improve Regulatory Compliance**
- **Prevent Pollution and Conserve Resources**
- **Increase Productivity/Improve Bottom Line**
- **Document Procedures and Improve Consistency**
- **Enhance Employee Morale**
- **Improve Safety/Reduce Environmental Liability**
- **Enhance Image and Improve Relationships**

---

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*





U.S. AIR FORCE

# ***EMS and the Air Force***

---

- **EXECUTIVE ORDER 13423: *Strengthening Federal Environmental, Energy, and Transportation Management***
  - (Signed Jan 24, 2007)
  - Replaces several executive orders
  - Implies Significant Environmental Aspects (SEAs)
  - Mandates Objectives & Targets (O&Ts) at the Agency level

---

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



# ***Fully Conforming vs. Fully Implemented***

---

## ■ **“Fully Conforming”**

- Meets standards established in ISO 14001
- ESOH council chairperson signs a self-declaration memo

## ■ **“Fully Implemented”**

- EMS shall be considered fully implemented when
  - Formal second party audit
  - Audit findings have been recognized
  - Declared conformance

**Fully Implemented by Dec 09**

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***Integration of EMS and VPP***

---

## ■ **Efficiencies gained**

- **Both set goals to control/minimize/eliminate risks and liabilities associated with activities and processes**
- **Promote safe work, following procedures, protecting the environment, continual improvement**
- **Rely heavily on personnel closest to the process or operation**
- **Increased communication and employee morale**
- **Provides AF personnel greater understanding of their responsibility and accountability for identifying and acting to abate hazards and risks**

---

Every airman looking out for his wingman-- ON and OFF duty

*Integrity - Service - Excellence*



# ***EMS & VPP Commonalities***

<b>Environmental Management System ISO 14001: 2004</b>	<b>Voluntary Protection Program 65 FR 45650<sup>5</sup></b>	<b>Efficiencies Created by Leveraging EMS and VPP</b>
<b>EMS Requirements</b>	<b>VPP Requirements</b>	
Environmental Policy Statement	Senior Leader Management Commitment	<i>Integration and strengthens communication</i>
<b>Planning</b>	<b>Worksite Analysis</b>	
Environmental Aspect Inventory	Job Safety/Hazard Analysis	<i>Identify OH&amp;S hazards and aspects concurrently preventing redundancies</i>
Legal and Other Requirements	VPP Technical Requirements	<i>ESOH CAMPs assess both</i>
Objectives and Targets	Goals and Objectives	<i>Reviewed concurrently during ESOH Council meetings</i>

**Every airman looking out for his wingman-- ON and OFF duty**

***I n t e g r i t y - S e r v i c e - E x c e l l e n c e***



U.S. AIR FORCE

# EMS & VPP Commonalities

<b>Environmental Management System</b> ISO 14001: 2004	<b>Voluntary Protection Program</b> 65 FR 45650 <sup>5</sup>	<b>Efficiencies Created by Leveraging EMS and VPP</b>
<b>Implementation and Operation</b>	<b>Hazard Prevention and Control</b>	
Resources, Roles, Responsibility and Authority	Responsibilities, Authorities and Resources	<i>Roles and responsibilities includes accountability</i>
Competence, Training and Awareness	Safety and Health Training	<i>Minimizes duplication</i>
Operational Control	System for Tracking Hazard Correction	<i>Adopt a standard system to track ESOH</i>
Emergency Preparedness and Response	Contractor Safety, Accident/Incident Investigations	<i>Integrate into one comprehensive emergency preparedness plan</i>

Every airman looking out for his wingman-- ON and OFF duty

*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



# **EMS & VPP**

## **Commonalities**

<b>Environmental Management System</b> ISO 14001: 2004	<b>Voluntary Protection Program</b> 65 FR 45650 <sup>5</sup>	<b>Efficiencies Created by</b> <b>Leveraging EMS and VPP</b>
<b>Checking and Corrective Action</b>	<b>Hazard Prevention and Control</b>	
Monitoring and Measurement	Written Preventive/Predictive Maintenance System	<i>Reduction in ESOH critical equipment</i>
Evaluation of Compliance	OSHA Assessment	<i>Minimize duplication in assessments</i>
Records	Documented Self-Inspections (Records)	<i>Adopt a standard system</i>
Internal Audit	Annual Self Evaluation	<i>Adopt a standard system</i>
<b>Management Review</b>	<b><i>Implied Continual Improvement Cycle</i></b>	

Every airman looking out for his wingman-- ON and OFF duty

*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



U.S. AIR FORCE

# ***Fairchild AFB, WA***

## ***Example***

---

- **ESOH concerns about cleaning hangar floors**
  - **Hazardous chemicals and water usage**
- **Employee-led team found dry cleaning process**
- **New system saves water and does not require hazardous chemicals**
- **Benefits:**
  - **No wet floors eliminating slip/fall hazard**
  - **Reduced exposure to hazardous chemicals**
  - **Does not produce wastewater**
- **Won 2007 Secretary Of Defense Environmental Award**

---

Every airman looking out for his wingman-- ON and OFF duty

*I n t e g r i t y - S e r v i c e - E x c e l l e n c e*



U.S. AIR FORCE

# ***Summary***

- 
- **Successful integration depends on management commitment and ongoing communication**
  - **An effective cross functional team is important**
  - **Taking advantage of EMS and VPP strengths will lead to continual improvement**

Every airman looking out for his wingman-- ON and OFF duty

---

*Integrity - Service - Excellence*



# QUESTIONS?



## UNITED STATES AIR FORCE

*Integrity - Service - Excellence*



U.S. AIR FORCE

# ***Points Of Contact***

---

**Lt Col Wade Weisman**

***SAF/IEE***

**703-693-9544**

**[wade.weisman@pentagon.af.mil](mailto:wade.weisman@pentagon.af.mil)**

**Ms. Krista Goodale**

**Booz Allen Hamilton**

**757-466-3251**

**[goodale\\_krista@bah.com](mailto:goodale_krista@bah.com)**

---

Every airman looking out for his wingman-- ON and OFF duty

***I n t e g r i t y - S e r v i c e - E x c e l l e n c e***